

## SPECIAL SERVICES

### (APPLICATION OF LOADING COILS AND REPEATING COILS)

#### 1.00 GENERAL

- 1.01 This section covers connecting and ordering information on locally manufactured equipment units.
- 1.02 These units are similar to the 1A angle-bracket-mounted units and are suitable for mounting in 105-type apparatus boxes.
- 1.03 The section is reissued to change Par. 2.01, 3.00 and Fig. 1.

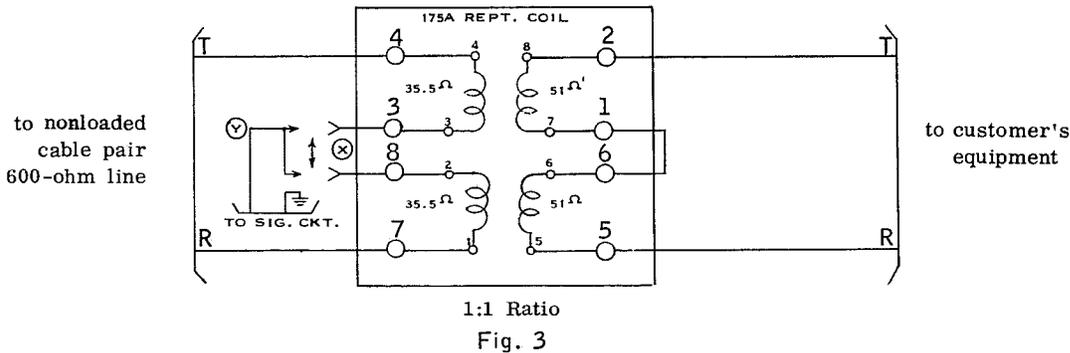
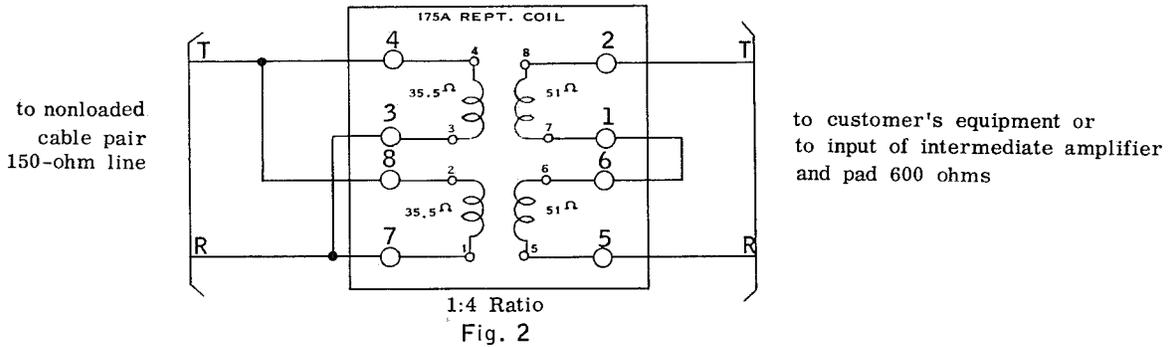
#### 2.00 DESCRIPTION

2.01 Loading-Coil Equipment Unit A-3822, (Manufacture Discontinued after June 30, 1960) and A-3827, (Manufactured after June 30, 1960). These units are available with four No. 632 loading coils (per Group 1) or four No. 638 loading coils (per Group 2). The units are used in Central Offices and at PBX's to correct loading irregularities. These units should only be provided when specified on the Service Order, or in a transmission recommendation. Fig. 1 below shows the terminal arrangement in table form:

		LOADING COIL EQPT. UNIT DWG. A-3827		LOADING COIL EQPT. UNIT DWG. A-3822		
COIL CASE NO.	LINE	TERMINALS ON NO. 601A1 COIL CASE		TERMINALS ON UNIT, ASSEMBLY, P-265798	TERMINALS ON NO. 146A COIL CASE	
		"A" TO P.B.X.	"B" TO LINE		"A" TO P.B.X.	"B" TO LINE
1	1	T (1)		1	T (1)	
		R (2)		2	R (2)	
			T (1)	3		T (1)
			R (2)	4		R (2)
	2	T (1)		5	T (1)	
		R (2)		6	R (2)	
		T (1)	7		T (1)	
		R (2)	8		R (2)	
2	3	T (1)		9	T (1)	
		R (2)		10	R (2)	
			T (1)	11		T (1)
			R (2)	12		R (2)
	4	T (1)		13	T (1)	
		R (2)		14	R (2)	
			T (1)	15		T (1)
			R (2)	16		R (2)

2.02 Ring-Thru Repeating-Coil Equipment Unit L-4697 consists of a 175A repeating coil mounted on an angle-bracket unit. This unit is suitable for use on private lines or on leased cir-

cuits when it is necessary to isolate customer-owned and maintained equipment which responds to 20-cycle ringing power. Figures 2 and 3 show the schematic arrangements.



Provide Y option when simplex signalling is required, otherwise provide X option.

TABLE A

LINE	OPTION	CODE	STRAP	IMPEDANCE RATIO	DROP
150 $\sim$	Fig. 2	175A	3-7, 4-8, 1-6	1:4	600 $\sim$
600 $\sim$	Fig. 3	175A	3-8, 1-6	1:1	600 $\sim$

2.03 Ceramic-Type Resistors for use on circuits (mainly teletype) which require a heat-dissipating-type resistor, are provided on equipment units covered by Drawing L-4705. These resistors are mounted on angle-bracket units suitable for mounting in 105-type apparatus boxes. Figure 4 shows a typical arrangement, and Table B, the various combinations.

TABLE B  
Value of Resistors

Group	Type	Res. A	Res. B	Res. C	Wattage
G 1	100A	1600	1600		10
G 2	100B	1075	220		10
G 3	100C	500	200		10
G 4	100D	10	20	40	8
G 5	100E	80	160	320	8
G 6	100F	100	800		10
G 7	100G	300			12
G 8	100H	60	60	60	8

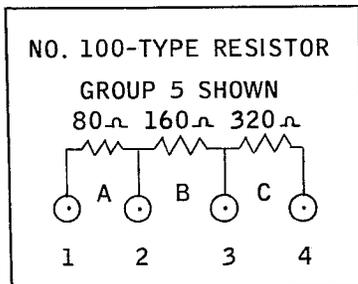


Fig. 4

3.00 SUPPLIES

Unit, Equipment, A-3822, G ( ) Double  
angle-bracket unit equipped as follows:

- Group 1, four 632 loading coils
- Group 2, four 638 loading coils

Unit, Equipment, A-3827, G ( ) Double  
angle-bracket unit equipped as follows:

- Group 1, two No. 601A1 coil cases each  
E/W two No. 632 loading coils.
- Group 2, two No. 601A1 coil cases each  
E/W two No. 638 loading coils.

Unit, Equipment, L-4697 Double angle-  
bracket unit equipped with a 175A 1:1 ratio  
ring-thru repeating coil.

Unit, Equipment, L-4705, G ( ) Single  
angle-bracket unit equipped with a ceramic  
resistor.